

[Transmitter for outputting differential signals of different voltage levels]

Abstract of Disclosure

A differential signal transmitter including a driver circuit that generates a differential signal in response to data input. The amplitude of the voltage swings in the differential circuit is controlled by an electrical bias. Two data inputs, one being the original Data and the other being Data bar, are connected to the transistors and cause the required current swings. The transmitter further includes a control circuit with an input for a single-bit control line for adjusting the bias to produce different swing amplitudes according to a control indicator inputted from the control line. The control circuit inputs one or more current sources and outputs the sum of one or more of the current sources according to the control indicator and the outputted current is used as the electrical bias.

Figures